RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/463,542

Source: _____ *PfWTb*

Date Processed by STIC: _____1-21-05_____

ENTERED

RAW SEQUENCE LISTING   DATE: 01/21/2005
PATENT APPLICATION: US/09/463,542   TIME: 13:27:15

Input Set : A:\234231SEQ.txt
Output Set: N:\CRF4\01212005\I463542.raw

```
  5 <110> APPLICANT: BRIGGS, MICHAEL R.
  6        SALADIN, REGIS S.
  7        AUWERX, JOHAN
  8        FAJAS, LLUIS
 11 <120> TITLE OF INVENTION: HUMAN PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR GAMMA
 12        (PPAR() GENE REGULATORY SEQUENCES AND USES THEREFOR
 15 <130> FILE REFERENCE: 234/231
C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/463,542
C--> 19 <141> CURRENT FILING DATE: 2002-12-11
 22 <150> PRIOR APPLICATION NUMBER: PCT/US98/15411
 23 <151> PRIOR FILING DATE: 1998-07-24
 25 <150> PRIOR APPLICATION NUMBER: US 60/053,692
 26 <151> PRIOR FILING DATE: 1997-07-25
 29 <160> NUMBER OF SEQ ID NOS: 60
 32 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 36 <210> SEQ ID NO: 1
 37 <211> LENGTH: 503
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Human PPAR(1 proximal promoter, exon A1, and intron A1
 41 <400> SEQUENCE: 1
 43  cccctgcccc tgccctgcc cccacccca ccccaccc caccccagc cggcgcccgc        60
 44  gcccgcccc gcgccgggcc cggctcggcc cgacccggtt ccgccgcggg caggcggggc       120
 45  ccagcgcact cggagcccga gcccgagccg cagccgccgc ctggggcgct tgggtcggcc       180
 46  tcgaggacac cggagagggg cgccacgccg ccgtggccgc aggtcagagt acgggtgccc       240
 47  gcggcgctcg ggaaccggct gctgcctggg cggggagtgc tcagggaggg ggcgcggagg       300
 48  gctggggccg agggtctggg gggtagggcc gaggaaacgg caactgacgg ggtcccagac       360
 49  ggatgagagc tggggagaag ggggtctcgg ctgaggggtc cggggctgag gcacggtcat       420
 50  ggtccggcag gacccggact gacgggtctc gggcgggcgg ctcacgggtg accgggtgaa       480
 51  tgggtctcgg gctgacggca ccc                                              503
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 2688
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Human PPAR(1 promoter
 60 <400> SEQUENCE: 2
 62  ggagctccac gcggtggcgg ccgctctaga actagtggat cccccgggct gcaggaattc        60
 63  gaggctgcag tgaactatga ttgcaccact gcactccagc ctgggtgaga gagcaatacc       120
 64  ttgtctcaaa acaaacaaac aaacaaaacc ccatgagata tcacttcata ccctttaggt       180
 65  tggctaaaat aaaaaagact ataacaagtg ttgacaagga tgtggaaaaa ctggaaccct       240
 66  gacacattgc tggtgggatt gtaaaatggt gtgcccactt tggaaaacag actggcagtt       300
 67  cctcaaaaac accgagttac gttatgatcc tgcagttctg tccctaggta tatactcaag       360
 68  agaaataaaa atatatgtcc acaagtaacc ttgtacatga atgctcacag cagcattatt       420
 69  cataatagcc cataaaagta gaaacaacct aaatattcat caattcatgg gatgaataaa       480
 70  caaaatgtgg tatatgtgta taatggaata ttgaccataa aaaggaatga aatattaata       540
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 71   taagctataa catggatgag cctccacaaa tactatgcta agtgaaagaa gaaagtcaca    600
 72   aaggacttca tattctatga ttctatttat atgaattgtc cagaataggt aaatctatag    660
 73   agaaagaata tctctatcta gagttggtgg aatgactgtt aatggagagg gggttccttt    720
 74   ttggagtgat gaaaatgttc taagggtaga tttggtgatg atggcacaac tctgtcaata    780
 75   aactaaaact cattgaactg tacattttat ttatttattt ttgagatgga gtcttgctct    840
 76   ggggctgaag tgcagtggcg caatctcggc ttgtaacctc tgcctcccag ggtcaagcga    900
 77   ttctactgcc tcagcccccc gagtagctga gattacaggc acgtgccacc acgcccagct    960
 78   aatttttgta tttcttagta gagatggagt ttcaccatgt tggccaggct ggtcttgaac   1020
 79   tcccggcctc aagtgatcca cctgcctcgg cctcccaaag tgctgggatt acaggcgtga   1080
 80   gctgccatac ccggcctgaa ttgtacattt tacttctatg gtatttacat tttagattat   1140
 81   attaattatt cctcaataaa gctgtgattt taaaaagcag gctaggcgca gtggctggtg   1200
 82   cctataatcc cagcactttg gaaagctgag gcaggaggat cacttgagcc caggagtttc   1260
 83   agactagtct aggcaacatg tcaagacaca gtctctacta aacaattaaa attaaaaaaa   1320
 84   aaaattagcc aggcatggtg gtgtgcacct gtagtcccag ctacttggga gcctgggggtg   1380
 85   ggaggattcc ttgagcccgg gaagtcgagg ctgaagtgag ccgtgattgc gccacagcac   1440
 86   tccagcctgg gcgacacagc aacaccctgt ctcatggaag aaagaaagaa aagaaaggaa   1500
 87   gaaagaaaaa aaaaaagcag attggaactc tggaattaac aagaagtagg acgcacggag   1560
 88   cacttccgcc tgagtggaga ctgtggatcc gggtcaacct gactacctaa atcacaggcc   1620
 89   aataaatggt ctttcagtgg tcagtccctg taagatccgt ggctctcagc ttcttatctt   1680
 90   aggggctgtg gaggaaggac atgattatgt tgatttaagc gctgaatatt ttcccttgtg   1740
 91   atacccatcc tcgcaaaact ttgcttcaac cacaaacgag gaccttctgt accagagggg   1800
 92   caataacaca atgaagctag gaagaaatgc agagcacccc agcatacagt ccataagctt   1860
 93   cctgaagtgg ggggcctcag gcatcgctgc ctccccaaag aggatcaggc ccagaacagt   1920
 94   atgctccaga aataagactg gaaaaaggga aagaggggcc tcaagtccag gagaccagcg   1980
 95   gctttctgaa cgcgcacctg ccaacccact ttggacaggt cacgatggac agcgtggcag   2040
 96   gaaaagaaaa ggtcactgtc tacccaacac atgagaaact gtttctcgtg cctcacgtcc   2100
 97   ccactccgtc cccacccatg ttgtctgagt ccctcggtgt cagaaacact gctaagaaat   2160
 98   ttaagaaatt ctgttaatga gtttaagaaa tgttttaat gattaaaagt cagtgacttg   2220
 99   tgaataacca tgtaacttac aaacgcaagg aactctgaaa gtgtgcagca ccaccgatca   2280
100   gaagagaaaa ccaagggacc cgaaatatgc tttaattaaa ttttctttta aaatgtcact   2340
101   ggaaagaaca tcttgggaag acggcctggc cgatcgccgt gtgaagggca agccactctg   2400
102   gccgagaggg agccccacac ctcggtctcc ccagaccggc cctggccggg ggcatccccc   2460
103   taaacttcgg atccctcctc ggaaatggga ccctctctgg gccgcctccc agcggtggtg   2520
104   gcgaggagca aacgacacca ggtagctgcc gcggggcaga gagtggacgc gggaaagccg   2580
105   gtggctcccg ccgtgggccc tactgtgcgc gggcggcggc cgagcccggg ccgctccctc   2640
106   ccagtcgcgc gccgccgccc gcgccctgtt tgggttcatg gggggtg              2688
110 <210> SEQ ID NO: 3
111 <211> LENGTH: 2045
112 <212> TYPE: DNA
113 <213> ORGANISM: Human PPAR(2 promoter, exon B, and intron B
117 <400> SEQUENCE: 3
119   gaattcaact gaatatagag aaaactaatt ttacacaact gtaatcactg tagtcatttg     60
120   gacaaattag caaacccaag ttttgcttta acttggattg ccttaataaa gatgttttgg    120
121   ggcttaatgg cacagttgct caactccccc actttattcc gtgatgttca gacccagcca    180
122   gcatttcccc atcaggctct tgcaccatga ttgacaggga cacttttact agtccccttg    240
123   aagaatgaat agttactcaa tggagattaa ccagatatat atttatttta ctcagaatat    300
124   cacgataagt ataattcaga gaattattgc cttctaatat actgccctgt gtggggggcgt    360
125   ctttgaaagt ccgcaaagtc actgcaattc taataggcca ctcatgtgac aagacctgct    420
126   cccacatcgg taatttggca cagctagtat ttctccttgc caaaaagggc aaaggccttg    480
```

```
127  agcaagaagc cagctttttc ctgattacaa aactgaccac aattcctcgc caacctaaca    540
128  gcgtaagtct attttttttct ggtggtgtgt tattcttctc atagagaact ccattttttc    600
129  attatgacat agcacttatc gtttaaacat caattgatgt tcaaacatca gctggtgtaa    660
130  cattgctgca gttgctattg atggataagc tgaagttttt aagaaagcaa acccgatgta    720
131  taaaattgaa accagatcaa acccttcttc attctcagct atttaatttt acagaattta    780
132  gatagcagtc agtatcattt tgggcttcac aaatcagtag agtaagtacc ttaggaatat    840
133  aacatttcag tagcatgctg ataccaacgt ttaaactatg gatacatatt tgaattccaa    900
134  attttttcttc agataatgtg attagagatt agagattcaa ccagggatag acaccgaaag    960
135  aaaactttgc ccaaataagc tttctggtat ttcataagca agagatttaa gttttccatt   1020
136  taagaagcca ttgtgaatta tacaacaata aaaaatgcaa gtggatattg aacagtctct   1080
137  tctctgataa ttctaaatac agtacagttc acgcccctca cgagacactg aacatgtggt   1140
138  caccggcgag acagtgtggc aatattatcc ctgtaatgta ccaagtcttg ccagagcagt   1200
139  gaacattatg acacaacttt ttgtcacagc tggctcctaa taggacagtg ccagccaatt   1260
140  caagcccagt cctttctgtg tttattccca tctctcccaa atatttggaa actgatgtct   1320
141  tgactcatgg gtgtattcac gattctgtta cttcaagtct ttttctttta acggattgat   1380
142  cttttgctag atagagacaa aatatcagtg tgaattacag caaacccata ttccatgctg   1440
143  ttatgggtga aactctggga gattctccta ttgacccaga aagcgattcc ttcactgata   1500
144  cactgtctgc aaacatatca caaggtaaag ttccttccag atacggctat tggggacgtg   1560
145  ggggcattta tgtaagggta aaattgctct tgtagtttgt cttccaggtt gtgtttgttt   1620
146  taatactatc atgtgtacac tccagtattt taatgcttag ctcgttgcta tcgcgttcat   1680
147  ttaaaaacat gttcagaacc ttaaaaaagg aaacctaacc taatctatct tatctctgtg   1740
148  catggctccc atttcctgaa ttttaagcat taaaggtata gttatatcca aaaacaatcc   1800
149  tgttcatctt tatttcctga gtttgcatag atttcccaag aatacataat ggcttttttag   1860
150  acttgaaggg tcacttttcc tctttcatct catatgttag agatctctca taactgtgtt   1920
151  atccctcttg cagcactttt attcctcttg aataacctcag ctcttttctg ttctattttg   1980
152  aaatctaagt atgtgtgtgc acttcagctc tcccaaagaa tgtatatccc acaatgtagg   2040
153  acaag                                                                2045
157  <210> SEQ ID NO: 4
158  <211> LENGTH: 27
159  <212> TYPE: DNA
160  <213> ORGANISM: LF-2
162  <400> SEQUENCE: 4
164  tctccggtgt cctcgaggcc gacccaa                                         27
168  <210> SEQ ID NO: 5
169  <211> LENGTH: 27
170  <212> TYPE: DNA
171  <213> ORGANISM: LF-14
175  <400> SEQUENCE: 5
177  agtgaaggaa tcgctttctg ggtcaat                                         27
181  <210> SEQ ID NO: 6
182  <211> LENGTH: 27
183  <212> TYPE: DNA
184  <213> ORGANISM: LF-18
186  <400> SEQUENCE: 6
188  agctgatccc aaagttggtg ggccaga                                         27
192  <210> SEQ ID NO: 7
193  <211> LENGTH: 30
194  <212> TYPE: DNA
195  <213> ORGANISM: LF-20
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```
197 <400> SEQUENCE: 7
199   cattccattc acaagaacag atccagtggt                                    30
203 <210> SEQ ID NO: 8
204 <211> LENGTH: 30
205 <212> TYPE: DNA
206 <213> ORGANISM: LF-21
208 <400> SEQUENCE: 8
210   ggctcttcat gaggcttatt gtagagctga                                    30
214 <210> SEQ ID NO: 9
215 <211> LENGTH: 29
216 <212> TYPE: DNA
217 <213> ORGANISM: LF-22
219 <400> SEQUENCE: 9
221   gcaattgaat gtcgtgtctg tggagataa                                     29
225 <210> SEQ ID NO: 10
226 <211> LENGTH: 29
227 <212> TYPE: DNA
228 <213> ORGANISM: LF-23
230 <400> SEQUENCE: 10
232   gtggatccga cagttaagat cacatctgt                                     29
236 <210> SEQ ID NO: 11
237 <211> LENGTH: 30
238 <212> TYPE: DNA
239 <213> ORGANISM: LF-24
241 <400> SEQUENCE: 11
243   gtagaaataa atgtcagtac tgtcggtttc                                    30
247 <210> SEQ ID NO: 12
248 <211> LENGTH: 29
249 <212> TYPE: DNA
250 <213> ORGANISM: LF-25
252 <400> SEQUENCE: 12
254   tcgatatcac tggagatctc cgccaacag                                     29
258 <210> SEQ ID NO: 13
259 <211> LENGTH: 30
260 <212> TYPE: DNA
261 <213> ORGANISM: LF-26
263 <400> SEQUENCE: 13
265   acataaagtc cttcccgctg accaaagcaa                                    30
269 <210> SEQ ID NO: 14
270 <211> LENGTH: 29
271 <212> TYPE: DNA
272 <213> ORGANISM: LF-27
274 <400> SEQUENCE: 14
276   ctctgctcct gcagggggggt gatgtgttt                                    29
280 <210> SEQ ID NO: 15
281 <211> LENGTH: 29
282 <212> TYPE: DNA
283 <213> ORGANISM: LF-28
285 <400> SEQUENCE: 15
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```
287  gaagttcaat gcactggaat tagatgaca                              29
291  <210> SEQ ID NO: 16
292  <211> LENGTH: 29
293  <212> TYPE: DNA
294  <213> ORGANISM: LF-29
296  <400> SEQUENCE: 16
298  gagctccagg ggttgtagca ggttgtctt                              29
302  <210> SEQ ID NO: 17
303  <211> LENGTH: 28
304  <212> TYPE: DNA
305  <213> ORGANISM: LF-33
307  <400> SEQUENCE: 17
309  gacgggctga ggagaagtca cactctga                               28
313  <210> SEQ ID NO: 18
314  <211> LENGTH: 28
315  <212> TYPE: DNA
316  <213> ORGANISM: LF-35
318  <400> SEQUENCE: 18
320  agcatggaat aggggtttgc tgtaattc                               28
324  <210> SEQ ID NO: 19
325  <211> LENGTH: 24
326  <212> TYPE: DNA
327  <213> ORGANISM: LF-36
329  <400> SEQUENCE: 19
331  tagtacaagt ccttgtagat ctcc                                   24
335  <210> SEQ ID NO: 20
336  <211> LENGTH: 24
337  <212> TYPE: DNA
338  <213> ORGANISM: LF-44
340  <400> SEQUENCE: 20
342  gtcggcctcg aggacaccgg agag                                   24
345  <210> SEQ ID NO: 21
346  <211> LENGTH: 24
347  <212> TYPE: DNA
348  <213> ORGANISM: LF-58
350  <400> SEQUENCE: 21
352  cactcatgtg acaagacctg ctcc                                   24
356  <210> SEQ ID NO: 22
357  <211> LENGTH: 24
358  <212> TYPE: DNA
359  <213> ORGANISM: LF-59
361  <400> SEQUENCE: 22
363  gccgacacta aaccaccaat atac                                   24
367  <210> SEQ ID NO: 23
368  <211> LENGTH: 24
369  <212> TYPE: DNA
370  <213> ORGANISM: LF-60
372  <400> SEQUENCE: 23
374  cgttaaaggc tgactctcgt ttga                                   24
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/21/2005
PATENT APPLICATION: US/09/463,542   TIME: 13:27:16

Input Set : **A:\234231SEQ.txt**
Output Set: **N:\CRF4\01212005\I463542.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; N Pos. 52
Seq#:40; N Pos. 64,68

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/09/463,542

DATE: 01/21/2005
TIME: 13:27:16

Input Set : **A:\234231SEQ.txt**
Output Set: **N:\CRF4\01212005\I463542.raw**

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:30; N Pos. 52
Seq#:40; N Pos. 64,68

VERIFICATION SUMMARY　　　　　　　　　　DATE: 01/21/2005
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```
L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:458 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:30
L:458 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:30
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:585 M:283 W: Missing Blank Line separator, <400> field identifier
L:654 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:40
L:654 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:40
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
```